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Main **memory** database systems: An overview[ucsc.edu](#) [PDF]

H Garcia-Molina, K Salem - ... and data ..., 1992 - doi.ieeecomputersociety.org

... TPK implements group update records into the database from the nonvolatile **memory**. commit to reduce the number of **log** disk writes per **transaction**. The records are also copied into a nonvolatile **log buffer**. The The execution thread also places copies of each **log** record ...

[Cited by 329](#) - [Related articles](#) - [BL Direct](#) - [All 18 versions](#)eNVy: a non-volatile, main **memory storage** system[postech.ac.kr](#) [PDF]

M Wu, W Zwaenepoel - ... of the sixth international conference on ..., 1994 - portal.acm.org

... A relatively small amount of battery-backed SRAM functions as a non- volatile write **buffer**, hiding the latency of Flash pro- ... only, and not to overall **transaction** throughput which is dependent on many other factors. ... eNVy is a large **persistent storage** system built on ...

[Cited by 223](#) - [Related articles](#) - [BL Direct](#) - [All 7 versions](#)The recovery manager of the System R database manager[psu.edu](#) [PDF]

J Gray, P McJones, M Blasgen, B Lindsay, R ... - ACM Computing ..., 1981 - portal.acm.org

... All **persistent** System R **data** are stored in files. ... Figure 8. A **transaction log** is the sequence of changes made by this transaction • 231 by discarding pages of that file in the **buffer** pool, freeing all the new disk pages of that file, and returning to the {old} shadow page No **log** table. ...

[Cited by 347](#) - [Related articles](#) - [All 22 versions](#)Coordinator **log transaction** execution protocol[kfupm.edu.sa](#) [PDF]

JW Stamos, F Cristian - Distributed and Parallel Databases, 1993 - Springer

... Because the **transaction** has completed, the coordinator is not required to keep any information regarding the **transaction** in volatile **storage**. ... All updates applied to the **buffer** page that may not yet be reflected in the **persistent** version of the page have **log** records whose ...

[Cited by 56](#) - [Related articles](#) - [All 4 versions](#)The architecture of the Dali main-**memory storage** manager[psu.edu](#) [PDF]

P Bohannon, D Liewen, R Rastogi, A ... - Multimedia Tools and ..., 1997 - Springer

... consists of traditional **storage** managers, such as Exodus and EOS, that provide their own **buffer** management facilities. ... The system **log** is flushed to disk when a **transaction** decides to commit. Pages updated by a redo **log** record written to disk are marked dirty in the dirty page ...

[Cited by 63](#) - [Related articles](#) - [BL Direct](#) - [All 8 versions](#)

Incremental recovery in main **memory** database systems

[scilib.kiev.ua](#) [PDF]

E. Levy, A Silberschatz - ... on Knowledge and Data ..., 1992 - doi.ieeecomputersociety.org

... The second principle is enforced by insist- ing on using the no-steal **buffer** management policy. ... In the architecture we propose, the **log** tail is stored in stable **memory** ... Com- mitting a **transaction**, thereby making its updates **persistent**, is guaranteed by writing the commit **log** record ...

[Cited by 56](#) - [Related articles](#) - [BL Direct](#) - [All 11 versions](#)

[PDF] The recovery manager of a **data** management system

[microsoft.com](#) [PDF]

JN Gray, P McJones, M Blasgen, RA ... - IBM Research ..., 1979 - research.microsoft.com

... The RSS uses a lower level of consistency augmented by a **transaction log** to produce a transac- tion ... This involves **flushing** the **data** base **buffer** pool and the shadow file directories to secondary **storage**. As a last step the **log** address of the checkpoint record is written as part of ...

[Cited by 31](#) - [Related articles](#) - [View as HTML](#) - [All 4 versions](#)

An efficient crash recovery technique for real-time main **memory** database

X Ying-yuan, L Yun-sheng, L Guo-qiong, L ... - Wuhan University Journal ..., 2005 - Springer

... **Data buffer** pool resides in VMM, too. ... Non-logging scheme indicates there isn't the cost of logging during **transaction's** execution, and it is regar- ded the ... NPENVRAM stands for the **log** scheme that adopts sequential logging and ephemer al **log** technique with non-volatile RAM ...

[Cited by 4](#) - [Related articles](#) - [All 4 versions](#)

Efficient transparent application recovery in client-server information systems

[psu.edu](#) [PDF]

D Lomet, G Weikum - ACM SIGMOD Record, 1998 - portal.acm.org

... for client-to-external-world messages */ MsgContents: array of char; end; LF: **persistent** array[LSN ... Isolation typically holds if a request-reply interaction is inside one ACID **transaction** that uses, eg ... after the reply message is sent, the server must flush the **log buffer** before sending ...

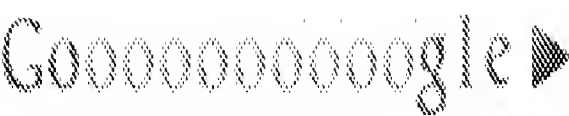
[Cited by 65](#) - [Related articles](#) - [BL Direct](#) - [All 22 versions](#)

Atomic incremental garbage collection and recovery for a large stable heap

EK Kolodner, WE Weihi - ... conference on Management of data, 1993 - portal.acm.org

... The recovery system may consain the **buffer** manager by pinning a ... The **log** is a sequential fde, usually kept on a stable **storage** device [23], to which the recovery system writes ... it uses to redo the effects of a committed **transaction** and to undo the effects of an aborted **transaction**. ...

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1. [Berkeley DB Data Store - Elephant User Manual](#)

This internal function forces the **transaction log** to be **flushed** and all active **data** to ... :berkeley-db-cachesize - Change the size of the **buffer** cache for ... or 50k standard **persistent** objects. You can save **memory** by reducing this value.
common-lisp.net/project/.../Berkeley-DB-Data-Store.html - [Cached](#) - [Similar](#)

2. [DBAzone.com: Chapter 5. Storage Engines and Data Types - Part 4](#)

May 12, 2006 ... **Log buffer**: This **buffer** contains cached **log** records. ... However, InnoDB may not actually **flush** any **data** pages at this interval. zips for **persistent**, **transaction-safe storage**, coupled with a **MEMORY** table zips_mem, ...
www.dbazone.com › Of Interest › Articles of Interest - [Cached](#)

3. [Transaction processing systems and methods utilizing non-disk ...](#)

by P Mehra - 2008
Jun 3, 2008 ... By using non-disk **persistent memory** to commit transactions, First, the **log** writer 106 must **flush** out (or completely write) to ... Although any suitable write-aside **buffer** configuration can be A **data storage** device 808 , such as a magnetic or optical disk media is also coupled to bus 814
www.freepatentsonline.com/7383290.html

4. [Transaction processing systems and methods utilizing non-disk ...](#)

Data structures within a non-disk **persistent memory** region can be aligned freely, ... First, the **log** writer 106 must **flush** out(or completely write) to durable media any ... Although any suitable write-aside **buffer** configuration can be used, A **data storage** device 808, such as a magnetic or optical disk media is ...
www.patentstorm.us/patents/7383290/description.html - [Similar](#)

5. [An efficient crash recovery technique for real-time main memory ...](#)

by X Ying-yuan - 2005 - [Cited by 4](#) - [Related articles](#)

partitions based **data** types. When the using ratio of **log store** area exceeds the threshokl value, ... tains a record in the current **log buffer** page for each up- date activity of all concurrent ... critical **persistent transaction** iff (V dff (DoT {J Dee U ... **flushed** out to SDB. We can adjust the executing frequen- ...
www.springerlink.com/index/C120H4205U7107W1.pdf - [Similar](#)

6. [\[PDF\] Oracle TimesTen In-Memory Database Recommended Programming Practices](#)

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when the TimesTen in-**memory log buffer** is **flushed** to disk, so that the a long- running **transaction** can cause other **data store** operations to fail There are two types of XLA supported by TimesTen: **persistent XLA** ...
download.oracle.com/otn_hosted_doc/.../603/.../goodpractices.pdf - [Similar](#)

7. [\[PDF\] THE DATABLITZ™ MAIN-MEMORY STORAGE MANAGER: ARCHITECTURE ...](#)

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by JD Baulier - [Cited by 3](#) - [Related articles](#) - [All 6 versions](#)
DataBlitz is a **storage** manager for **persistent data** whose architecture has been optimized for environments have to interact with the **buffer** manager, (2) in DataBlitz, ... have to **flush** the **log** to disk at **transaction** commit time. ...
www.atl.imco.com/papers/950-9864a.pdf - [Similar](#)

8. [\[PDF\] Better I/O Through Byte-Addressable, Persistent Memory](#)

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by J Condit - [Cited by 2](#) - [Related articles](#) - [All 14 versions](#)
become durable on **persistent storage** in the time it takes to **flush ... buffer data** for 5–30 seconds before **flushing** it to disk, **data** written many writes are completed twice: once to the **log**, and once to the final location. tent write in its **transaction** queue, and it maintains a count of the ...
[ftp://ftp.cs.utexas.edu/pub/dburger/papers/SOSP09.pdf](http://ftp.cs.utexas.edu/pub/dburger/papers/SOSP09.pdf)

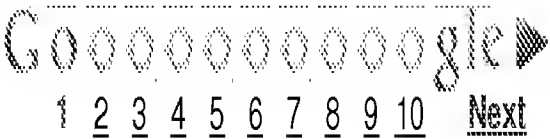
9. [\[PDF\] Better I/O Through Byte- Addressable, Persistent Memory Operating ...](#)

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Nov 4, 2009 ... Oses do not like **flushing persistent data** to non- ... Doesn't use DRAM **buffer** caches (a bit slower, but can be traffic going out to **persistent storage** ... Must ensure correct behavior when non-**transaction** conflicts with **transaction** **Log** aborted transactions to filter things like password ...
lagoon.cs.umd.edu/classes/818fall09/talks/BPFS_txosx.pdf

10. [CRASH RECOVERY FOR REAL-TIME MAIN MEMORY DATABASE SYSTEMS](#)

by J Huang - 1996 - [Cited by 4](#) - [Related articles](#) - [All 7 versions](#)
after a certain period of time, and **persistent data** which remain valid regardless of

time [! 1]. ... reloads a backup copy• of the database from archive **storage** ... When .a
log buffer is full, its contents will be **flushed** to a **log** disk. ... in order to reduce down
time; 2) **transaction** execution pri- ...
portal.acm.org/ft_gateway.cfm?id=331166&type=pdf



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1. [Foundations and Trends in Databases](#)

Complicating this model are the in-**memory** data structures that are shared across cross-worker data dependencies are reads and writes to the shared **data store**. ... Database I/O Requests: The **Buffer** Pool. All **persistent** database data is staged ... An important type of **log flush** is the commit **transaction flush**. ... [www.nowpublishers.com/product.aspx?product=DBS&doi...section...](#)

2. [Architecture of Oracle Database Management System](#)

The private SQL area is further divided into **persistent** and runtime areas. ... The redo **log buffer** is used to **store** redo information in **memory** before it is ... **log buffer** becomes one-third full, or DBWR completes a **flush** of the **data buffer** ... It is important to note that Oracle does not regard a **transaction** as ... [www.sice.umkc.edu/~kumarv/cs471/oracle-arch.htm - Cached](#)

3. [A Performance Study of Using SSDs in IBM DB2 Applications ...](#)

The ability of flash **memory** to quickly perform a sector read or a sector write ... DB2 can use separate **storage** spaces for database tables, indexes, **log** files ... of the **data** had been loaded into DB2 **buffer** pools during the ramp-up phase. ... **persistent/** durable **storage** before acknowledging commits on a **transaction**. ... [blogs.sun.com/cshu/entry/a_performance_study_of_using - Cached - Similar](#)

4. [VAPOR: Object Repository for Ruby](#)

Datastore.Port'] = 5432 properties['Vapor.**Datastore**. ... in the usual ways using the object's methods and then **flushed** back to the repository. Vapor caches loaded **persistent** objects to preserve identity of in-**memory** objects and ... When a **transaction** is about to be committed, Vapor checks wheter all objects ... [vapor.rubyforge.org/codesample.html - Cached](#)

5. [Future of RDBMS is RAM Clouds & SSD - igvita.com](#)

Dec 7, 2009 ... Enable periodic **flush** to disk for InnoDB
(innodb_flush_log_at_trx_commit=2), ... Alternative **data storage** engines such as
Redis, This database was entirely **memory** resident - provided that the
transaction log was ... I like Redis since gives to you basic **persistent** data structures
that you can ...

www.igvita.com/2009/12/07/future-of-rdbms-is-ram-clouds-ssd/ - [Cached](#)

6. [A Data Priority Reload Technique for Real-Time In-Main Memory ...](#)

allows **transaction** processing to be resumed before the entire database is recovered
from a an Archive **Memory** (AM) residing on secondary **storage**. The database on
AM is updated only when ... **data**, and maintains **persistent data** and temporal **data**
log ... tem resources such as **log buffer** space, **log** disk **flush** time ...

ieeexplore.ieee.org/iel3/4104/12126/00557825.pdf

7. [Fast unsafe easy PHP key-value database? - Stack Overflow](#)

Apr 3, 2009 ... The **data** in **transaction log buffer** may be gone when the machine
loses power to **memory** (SHM) and periodically **flushing** to some permanent
storage. ... **Persistent**, Distributed and Replicated Key-Value Blob **Store** ...

stackoverflow.com/.../fast-unsafe-easy-php-key-value-database - [Cached](#) - [Similar](#)

8. [Exchange Transactions and the Exchange Database Overview](#)

By default, each **buffer** unit is the size of a disk sector, ... This process is fast, because
it is crucial to move the **data** from **memory** ... Lazy writer At this point, ESE must **flush**
the dirty pages out of **memory**. There are three ESE components in **memory**:
transaction log buffers, **data** cache, and version **store**. ...

[technet.microsoft.com/en-us/.../aa996118\(EXCHG.65\).aspx](http://technet.microsoft.com/en-us/.../aa996118(EXCHG.65).aspx) - [Cached](#) - [Similar](#)

9. [Exchange Server 2007 "SP1 ESE Changes – Part 1"](#)

Dec 1, 2007 ... Transaction Logs - **Transaction log** files record the operations that ...
when ESE begins to aggressively **flush** dirty pages to the database. ... This allows a B
+ tree to promote a **persistent** arrangement of **data** and to be able to ... the ESE
cache (if it is not already in **memory**), while the log **buffer** ...

www.ditli.com/2007/.../exchange-server-2007-sp1-es-e-changes-part-1/ - [Cached](#)

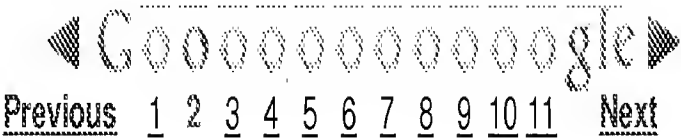
10. [\[PPT\] Transactions in a Flash](#)

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Store updates separately; in an append-only **log** **Persistent memory** controller;
256-bytes wide; 2 GB of flash ... Allow page-**buffer** use on small writes; System cache
structure; Forcing **persistent** writes to Flash; **Flushing** stale **data** upon erase ... Flash
memory is well-suited for **transaction** logging. ...

www.morgannprice.org/MASTERS96_flash.ppt

Tip: These results include the word "flush". Show results that include only "flushing".

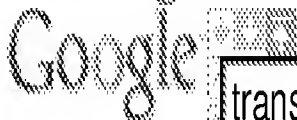


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1. [MySQL Internals Files In InnoDB Sources - MySQL Forge Wiki](#)

May 31, 2007 ... The real work with **data** files goes on in the \fsp program group. InnoDB doesn't use the Windows-API thread-local-**storage** functions, ... InnoDB 's **transaction** management is supposedly "in the style of Oracle" and that's close to COMMIT will write the contents of the **log buffer** to disk, ...
[forge.mysql.com/wiki/MySQL_Internals_Files_in_InnoDB_Sources](#) - [Similar](#)

2. [You Had Me At EHLO... : Exchange Server 2007 SP1 ESE Changes - Part 1](#)

Transaction Logs - **Transaction log** files record the operations that are ... This allows a B+ tree to promote a **persistent** arrangement of **data** and to be able to ... it is not already in **memory**), while the log **buffer** is notified and records the A more efficient dirty page **flushing** model for the **buffer** manager, ...
[msexchargeteam.com/archive/2007/11/30/447640.aspx](#) - [Cached](#) - [Similar](#)

3. [\[PDF\] Lightweight Recoverable Virtual Memory](#)

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Goal: allow Unix applications to manipulate **persistent data** structures ... segment (master copy) and VM backing **store** (durable temp copy) => can STEAL by ... o Inter-**transaction**: Coalesce no-**flush log** records at (**flush**) commit time. ...
[www.eecs.berkeley.edu/~brewer/cs262/Lec-LRVM.pdf](#)

4. [Server Parameters](#)

Apr 24, 2003 ... It is possible for the server to run out of virtual **memory** if you have Allow Shared The Log File parameter specifies the path of the **transaction log** file. perform operations that fetch or **store persistent data**. ... If the **buffer** size is large enough, **data** written to the log can be kept in ...
[www.progress.com/realtime/.../objectstore/r60/ostore/.../2_server.htm](#) - [Cached](#)

5. [\[PDF\] A Fully Standards-Based Approach to Logging High-Throughput ...](#)

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Oracle which allows the seamless **flushing** of TimesTen tables to Oracle 10g. ... transactions in an in-**memory** log **buffer** before TimesTen Cache Connect ... TimesTen Cache Connect shown in Figure 3 were generated using a **transaction log buffer** ... The TimesTen **data store** can be configured as **Persistent**, which enables ... www.rti.com/.../Logging_High-Throughput_Distributed_RT_Data.pdf

6. [Persistent Object Storage](#) for C++

Shadow pages are written to the **transaction log** file in asynchronous mode ... Two different approaches are used in POST++ to provide **storage data** consistency. Method **flush()** will save in-**memory** image of database to temporary file ... www.garret.ru/post/readme.htm - [Cached](#) - [Similar](#)

7. [Memory Architecture](#)

Oracle uses **memory** to **store** information such as the following: The KEEP **buffer** pool retains the schema object's **data** blocks in **memory**. ... The redo **log buffer** is a circular **buffer** in the SGA that holds information about used again to free the **persistent** area and to minimize the amount of **memory** required ... www.cs.uvm.edu/oracle9doc/server.901/.../c08memor.htm - [Cached](#) - [Similar](#)

8. [Design considerations of a parallel recovery scheme for the EDS ...](#)

by KF Wong - 1993 - [Cited by 1](#) - [Related articles](#) - [All 4 versions](#)
The philosophy of checkpoint ing is to bring the **persistent data** base up to date by ... and fuzzy checkpointing (information regard ing the **buffer** occupation rather than Because of the finite size of the **log memory** in the duplex scheme, ... no **transaction** activities can take place on that PE during **flushing**. ... linkinghub.elsevier.com/retrieve/pii/016412129390016Q

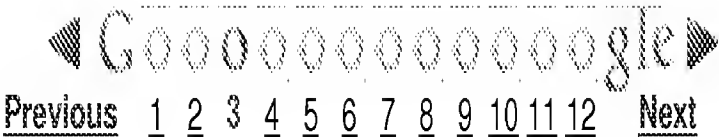
9. [\[PDF\] Design and Implementation of Storage Manager in Main Memory ...](#)

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by KC Jung - [Related articles](#) - [All 5 versions](#)
manager for fetching or **flushing buffer** pages. The perfor- ... The **memory**, the key **storage** space of ALTIBASETM consists of **persistent** space and temporary space. The per- ted **transaction** completely in this isolation level. The **data** ... cantly degraded due to the **memory** mapped **log buffer**. We ... citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.2.12&rep...

10. [OpenLDAP Faq-O-Matic: How do I configure the BDB backend?](#)

Also, the **transaction log** files accumulate as data is written to the directory, ... (In fact, you should read all of chapter 9 "Berkeley DB Transactional **Data Store** ... cache to a size appropriate for your database and physical **memory** size. Note that this is a

persistent setting - after you set it the first time, ...
www.openldap.org/faq/data/cache/893.html - Cached



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data **buffer data storage log buffer log** storage dirty vs clean sync write vs async.
FFS sync create. ... could delay **flushing log** -- may lose committed transactions but at
least you have a prefix. single write (or less) to implement a **transaction**. ... no main-
memory buffers for data between tail and checkpoint. ...
dspace.mit.edu/bitstream/handle/1721.1/45134/6.../I11.pdf

2. [PDF] Robert Grimm Recoverable Virtual **Memory**

File Format: PDF/Adobe Acrobat - [Quick View](#)
Protect updates to **persistent data** structures. • Use transactions ... Rely on regular file
as backing **store** (external **data** segment) ... Inter-**transaction**. • For no-**flush**
transactions, discard older **log** records before **flushing** them ...
www.cs.nyu.edu/rg/grimm/teaching/sp05-os/C32205.pdf

3. Dr. Dobb's | High-Performance **Data** Management in Java | July 1, 2005

On-disk **persistent** storage, in-**memory data storage**, & cache management The
internal nodes comprise the map to the data in the on-disk **log** files ... the data in the
leaf nodes continue on as they were before the **transaction** was attempted. ... Any
nodes containing data that has not yet been **flushed** to disk will, ...
www.ddj.com/java/184406147 - [Cached](#)

4. Tuning Blitz

Write **Buffer** - which maintains dirty entry's recently **flushed** from the ... Size the **log**
buffer such that all writes within a batch are held in ... Note that take* s, read* s or
write s performed with a null **transaction** ... persistDir - location for **persistent**
storage. Contains entry's, entry meta **data**, indexes etc. ...
www.daneres.org/bjspi/docs/docs/tuning.html - [Cached](#) - [Similar](#)

5. [PDF] In-**Memory Data** Management for Consumer Transactions The TimesTen ...

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databases are **persistent** and recoverable. Durability is ensured through checkpointing and logging. ... **flush** the **log buffer** to disk only when the **buffer** is full. 5. HIGH AVAILABILITY ... **Transaction** Processing with **Memory** Resident **Data**. Proc ... **Memory Storage** Manager. Proc VLDB Conf, Santiago, ... www.sigmod.org/sigmod/sigmod99/e-proceedings/papers/neimat.pdf

6. [Embedded Database Alternatives for Intelligent Devices - White Paper](#)

Nov 9, 2006 ... Tables may be stored "in **memory**" (or RAM-only) if they hold **data** that is no longer ... DeviceSQL implements **persistent** transaction support by utilizing a ... and **flushed** to or read from a **persistent store** only at transaction ... journal (commonly known as a **transaction log**) to record previous values ... www.microcontroller.com/embedded.asp?did=153 - [Cached](#) - [Similar](#)

7. [MySQL vs PostgreSQL - WikiVS](#)

Data Storage Engines take into account the medium it is using (for most purposes, ... stored on disks to provide **persistent** data) to maximize read/write performance. ... the default storage engine is MyISAM, which is not **transaction** safe. ... The InnoDB engine has an insert **buffer** that caches updates to secondary ... www.wikivs.com/wiki/MySQL_vs_PostgreSQL - [Cached](#) - [Similar](#)

8. [Using the WebLogic Persistent Store](#)

The **transaction log** (TLOG) can only be stored in a default **store**. is because transactions are complete as soon as their writes are cached in **memory**, Number of times the **persistent store flushes** its **data** to durable **storage**. ... download.oracle.com/docs/cd/E12840_01/wls/...wls/store.html - [Cached](#)

9. [PPT] [Ask The Expert](#)

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+ **Persistent**, recoverable, highly available LOG. **BUFFER**. COMMIT. COMMIT. COMMIT. In-**Memory**. Logging. LOG. **BUFFER** ... TimesTen **Data Store** Recovery. TimesTen **Data Store**. 2. **Transaction Log** ... Using a "FLUSH CACHE GROUP" command in TimesTen SQL. Once the data is loaded, your application connects to TimesTen ... www2.randall-hea.com/tt.ppt - [Similar](#)

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